

## Appendix D Detailed Cost Estimates

MOBI 1 2 3 4 5	ACE STABILIZATION ALTERNATIVE - DRAFT  Line Item	Est. Qty.	Unit	Unit	Extended	DNCEPTUAL
MOBI 1 2 3 4 5	Line Item		Unit	Unit	Extended	
No.  MOBI  1  2  3  4  5			Unit	Unit	Extended	
1 2 3 4 5		Gity.		Price	Price	Description
1 2 3 4 5			Oilit	11100	11100	Bescription
2 3 4 5	LIZATION & GENERAL SITE PREPARATION	_	0/	0000047	450400	Ti. ad a secondary
4 5	Mobilization, Bonding, Insurance Construction BMPs (E&S Controls)	5 1	% LS	3068047 6000		Typical percentage Judgement
5 REPC	Access road improvement & final repair	7	DAY	1073	7511	Means crew B-10L
REPO	Clear & Grub repository site & remove stumps	4	AC	7425		Means 02-230-100-0200 & -0250; 12" trees - diff.access
	Cleanup & Demobilization	-	LS	6000	202613	Judgement
6	SITORY SITE PREPARATION				202010	
	Surveying	1		10000		Judgement
7	Excavation & stockpile for cover & screening at 50%  Clay import for composite liner system	28700 4840	CY	7.38 25		Means 17-03-0201 remed; +/-1.5 ac x 15 ft @2:1, plus stockpile & screeni Judgement; 1.5 ac; 2' compacted clay layer
9	GCL or geomembrane for composite liner system	8750	SY	10		15' x 150' rolls, 1.5 ac, approx. 35 rolls
10	Leachate collection and removal system	- 1	LS	100000		Judgement
11	Water storage/delivery system  Monitoring wells for GW detection system	500	LS LF	106500 45		Means 19-01-0326 remed; 10,000 gal storage  Means 02-520-510-0800; 10 wells @50 ft avg.depth
13	Surface water control system grading	15	DAY	2116		Means crew B-10L w/ hyd.excavator - difficult access
14	Surface water control structures	11	EA	1000	11000	1200 lf + 500x2 lf @ 200 ft o.c.; top of pile + extension
15 16	West Sharrard Gulch protection	910	LS LF	42525 22		Judgement - includes culvert installation & additional BMPs for gulch
17	Interior Fencing, chain link Site Fencing, barbed wire	1800	LF	8.65		Means 02-820-130-0800; 6 ft ht, 6 ga.; p=910' around 1.5 ac  Means 02-820-410-0500; 5 ft ht, 14 ga.; p=1800' around 1.5+4 = 5.5 ac
18	Nuisance control features	1	LS	20000	20000	Judgement
					800018	
НАІ	E PLACEMENT & CLOSURE			1		
19	Surveying	- 1		10000		Judgement
20	Partial excavation of shale pile + impoundments	57000	CY	1.36	77520	Means 02-315-424-1350; 5 CY track mounted F.E.
21	Haul to in-place repository  Backfill at repository	57000 57000	CY	3.78 0.63		Judgement Means 02-315-120-5020; 300 HP dozer
23	Compaction at repository	57000	CY	0.63		Means 02-315-310-5080; 12" lifts, 3 passes
24	Reshaping - unexcavated areas	78000	CY	7	546000	Judgement
25 26	Compaction - unexcavated areas  Permanent surface water control grading	78000 22.5	DAY	2116		Judgement  Means crew B-10L w/ hyd.excavator - difficult access - includes repos. face
27	Permanent surface water structures	26	EA	1500		1200 If + 500x2 If @ 100 ft o.c.; top of pile + extension - includes repos. fac
28	West Sharrard Gulch protection	- 1	LS	99225	99225	Judgement
29	Final cover system - low permeability soil	13310	CY	16.95		Means 33-08-0506 remed; (1.5 + 4) = 5.5 ac x 18"
30	Final cover system - rooting/seed bed layer  Revegetation - in-place repos hydroseed & hydromulch	13310	AC	0.63 4000.00		Means 02-315-120-5020; 300 HP dozer, 5.5 ac x 18"  Means 02-920-320-0600; 20 lb/ac rate w/mulch+fert separate passes
32	Revegetation - reshaped shale pile - hydroseed & hydromulch	4	AC	4000.00		Means 02-920-320-0600; 20 lb/ac rate w/mulch+fert separate passes
33	Dumping Fees	0	CY	51.84		N/A
					1576105	
UBT	OTAL FOR CONSTRUCTION				2578736	
	Additional line items allowance	10	%	2578736	257874	
	COTAL FOR CONSTRUCTION WITHOUT CONTINGENCY  Contingency	15	%	2836609	<b>2836609</b> 425491	
	OTAL FOR CONSTRUCTION WITH CONTINGENCY	13	70	2000000	3262101	
	NEERING & DESIGN   Certificate of Designation Application Fees	0	LS	10000		6 CCR 1007-2 Section 1.7.2 - not required for CERCLA site
37	CDPHE stormwater constr. & dewatering permit fees	0	LS	1900		CDPHE water quality permitting home page - not required for CERCLA site
38	Engineering design & operation report (including HASP)	4	%	3262101	130484	Judgement on % of construction costs
39 40	Drilling for site characterization  Construction oversight	150 6	LF %	45.00 3262101		Means 02-520-510-0800; 200' o.c., 3 wells @50 ft avg.  Judgement on % of construction costs
41	Administration	3	%	3262101		Judgement on % of construction costs
					430823	
	RATIONAL REQUIREMENTS DEVELOPMENT:					
	PCB detection/prevention program	0	LS	10000	0	Judgement - not anticipated for this site
43	Waste characterization/disposal plan	- 1	LS	20000		Judgement
44 45	Groundwater monitoring program  Explosive gas monitoring program	0	LS	42000 10000		Judgement Included in HASP
46	High wind shutdown protocols	0	LS	10000		Included in HASP Included in HASP
					62000	
	IMPLEMENTATION ANNUALLY:	Discoun		7%		
47	PCB detection/prevention program Waste characterization/disposal	0	YR YR	3000 17000		5% of full-time effort + 2% of 1/2-time - not anticipated for this site 10% of full-time effort + 20% of 1/2-time
49	Groundwater monitoring	30	YR	10000	132777	Monthly sampling and testing of 10 wells
50	Explosive gas monitoring program	2	YR	3000	5424	5% of full-time effort + 2% of 1/2-time
51 52	Site security Recordkeeping	2	YR YR	45000 37000		Full-time during daily operations only + 6% of 1/2-time 80% of full-time effort + 20% of 1/2-time
			111	5,000	317195	
	ITY CLOSURE - ENGINEERING/DESIGN					
53 54	State & Local notifications General public notification	1	LS	3000 3000		Judgement Judgement
55	Trespass prevention measures	1	LS	3500		Judgement
56	Permanent surface water control plan	- 1	LS	10000	10000	Judgement
57 58	Closure plan preparation, incl. final cover system  Post-closure plan preparation	1	LS	42000 10000		Judgement Judgement
JO	i ost olosure pian preparation	1	LO	10000	71500	
	OTAL FOR DESIGN	5	%	881518	<b>881518</b> 44076	
	Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY	5	76	001018	925594	
	Contingency	10	%	925594	92559	
	OTAL FOR DESIGN WITH CONTINGENCY				1018153	
	L FOR DESIGN + CONSTRUCTION (ROUNDED)				4280000	
UBT	The state of the s				00000	
UBT	<u> </u>	_				
ОТА	ASSUMPTIONS & LIMITATIONS:					
OTA 1	Pricing is for 2004 present value with 7 percent discount rate.	with one	ration of	the lendf:		
**************************************	Pricing is for 2004 present value with 7 percent discount rate.  Annual costs are set at max. 2 years for activities associated					t the landfill have ceased.
1 2 3 4	Pricing is for 2004 present value with 7 percent discount rate. Annual costs are set at max. 2 years for activities associated Annual costs are set at 30 years for long-term monitoring active Annual plan implementation assumes one full- and one half-tine.	vities tha	t will cor oyee to	ntinue after oversee re	operations a pository oper	ations.
1 2 3 4 5	Pricing is for 2004 present value with 7 percent discount rate. Annual costs are set at max. 2 years for activities associated Annual costs are set at 30 years for long-term monitoring acti- Annual plan implementation assumes one full- and one half-tim Waste characterization/disposal plan outlines waste screening	vities tha me empl g, handlir	t will cor oyee to ng, and e	ntinue after oversee re exclusion p	operations a pository oper rocedures an	ations. Id contingency plan to prevent/address accidental inclusion of hazardous wa
1 2 3 4 5	Pricing is for 2004 present value with 7 percent discount rate. Annual costs are set at max. 2 years for activities associated Annual costs are set at 30 years for long-term monitoring active Annual plan implementation assumes one full- and one half-tine.	vities tha me empl g, handlir	t will cor oyee to ng, and e	ntinue after oversee re exclusion p	operations a pository oper rocedures an	ations. Id contingency plan to prevent/address accidental inclusion of hazardous wa

-	ODIN			_	COST - CO	Y DNCEPTUAL
	OPIN	IION O	FPRU	BABLE	0051-00	JNCEPTUAL
ONSIT	E REPOSITORY ALTERNATIVE - DRAFT					
Item No.	Line Item	Est. Qty.	Unit	Unit Price	Extended Price	Description
MOBII	LIZATION & GENERAL SITE PREPARATION					
	Mobilization, Bonding, Insurance	5	%	2957829	147891	Typical percentage
2	Construction BMPs (E&S Controls)	1	LS	10000	10000	Judgement - controls at 2 locations
3	Access road improvement & final repair Clear & Grub repository site & remove stumps	14 7		1073 7425		Means crew B-10L - 2 locations Means 02-230-100-0200 & -0250; 12" trees
5	Cleanup & Demobilization	1	LS	10000		Judgement - cleanup at 2 locations
2500	OUTODAY OUTO DOCUMENTO				234888	
	SITORY SITE PREPARATION Surveying	1	LS	10000	10000	Judgement
7	Excavation & stockpile for cover & screening at 25%	61400		5.61		Means 17-03-0201 remed; +/-3.5 ac x 15 ft @4:1, plus stockpile & screening
8	Clay import for composite liner system	11293	CY	25		Judgement; 3.5 ac; 2' compacted clay layer
9	GCL or geomembrane for composite liner system  Leachate collection and removal system	18750	SY	100000		15' x 150' rolls, 3.5 ac, approx. 75 rolls  Judgement
11	Water storage/delivery system	1	LS	106500		Means 19-01-0326 remed; 10,000 gal storage
12	Monitoring wells for GW detection system	750	LF	45		Means 02-520-510-0800; 15 wells @50 ft avg.depth
13 14	Surface water control system grading Surface water control structures	20 30		2116 1000		Means crew B-10L w/ hyd.excavator - 2 locations 3600 lf @150 ft o.c. + 1200 lf @200 ft o.c.
15	West Sharrard Gulch protection	1	LS	5000		Additional construction BMPs for gulch
16	Interior Fencing, chain link	1400	LF	22		Means 02-820-130-0800; 6 ft ht, 6 ga.; p=1400' around 3.5 ac
17 18	Site Fencing, barbed wire  Nuisance control features	1960	LF LS	8.65 20000		Means 02-820-410-0500; 5 ft ht, 14 ga.; p=1400' add 40% for outer fencing Judgement
					1209765	
SHALL	E PLACEMENT & CLOSURE					
	Surveying	1	LS	10000		Judgement
20	Excavation of shale pile & impoundments	135000	CY	1.36	183600	Means 02-315-424-1350; 5 CY track mounted F.E.
	Haul to onsite repository  Backfill at repository	135000 135000	CY	3.42 0.63		Means 02-315-490-0320; 1/2 mi RT, 12 CY dump  Means 02-315-120-5020; 300 HP dozer
23	Compaction at repository	135000		0.00		Means 02-315-310-5080; 12" lifts, 3 passes
	Reshaping - shale pile	0		7	0	N/A
	Compaction - shale pile Permanent surface water control grading	0 15		2116		N/A Means crew B-10L w/ hyd.excavator - incl. repository face
	Permanent surface water structures	36	EA	1500		3600 If @150 ft o.c. + 1200 If @200 ft o.c incl. repository face
	West Sharrard Gulch protection	0		66150		N/A
29 30	Final cover system - low permeability soil Final cover system - rooting/seed bed layer	8470 8470	CY	16.95 0.63		Means 33-08-0506 remed; approx. 3.5 ac x 18"  Means 02-315-120-5020; 300 HP dozer, 3.5 ac x 18"
31	Revegetation - onsite repos hydroseed & hydromulch	3.5	AC	4000.00	14000	Means 02-920-320-0600; 20 lb/ac rate w/mulch+fert separate passes
32	Revegetation - excavated shale pile - hydroseed & hydromulch	4		4000.00		Means 02-920-320-0600; 20 lb/ac rate w/mulch+fert separate passes
33	Dumping Fees	0	CY	51.84	1041443	N/A
	OTAL FOR CONSTRUCTION	10	%	2486096	2486096 248610	
	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY	10	70	2400090	2734705	
	Contingency	15	%	2734705	410206	
SUBT	OTAL FOR CONSTRUCTION WITH CONTINGENCY				3144911	
ENGIN	NEERING & DESIGN			1	ı	
	Certificate of Designation Application Fees	0		10000		6 CCR 1007-2 Section 1.7.2 - not required for CERCLA site
	CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP)	0		1900 3144911		CDPHE water quality permitting home page - not required for CERCLA site  Judgement on % of construction costs
	Drilling for site characterization	300				
39				45.00		Means 02-520-510-0800; 200' o.c., 6 wells @50 ft avg.
40	Construction oversight	6	%	3144911	188695	Judgement on % of construction costs
40	Administration Administration		%		188695 94347	Judgement on % of construction costs Judgement on % of construction costs
40 41 <b>OPER</b>	Administration ATIONAL REQUIREMENTS	6	%	3144911	188695	Judgement on % of construction costs Judgement on % of construction costs
40 41 <b>OPER</b> PLAN	Administration ATIONAL REQUIREMENTS DEVELOPMENT:	6 3	%	3144911 3144911	188695 94347 <b>422338</b>	Judgement on % of construction costs Judgement on % of construction costs
40 41 <b>OPER</b> PLAN 42	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program	6	% % LS	3144911 3144911 10000	188695 94347 <b>422338</b>	Judgement on % of construction costs Judgement on % of construction costs  Judgement - not anticipated for this site
40 41 OPER PLAN 42 43 44	Administration  ATIONAL REQUIREMENTS  DEVELOPMENT: PCB detection/prevention program  Waste characterization/disposal plan  Groundwater monitoring program	0 1 1	% % LS LS LS	3144911 3144911 10000 20000 42000	188695 94347 <b>422338</b> 0 20000 42000	Judgement on % of construction costs Judgement on % of construction costs  Judgement - not anticipated for this site Judgement Judgement
40 41 OPER PLAN 42 43 44 45	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program	0 1 1 0	% LS LS LS LS	3144911 3144911 10000 20000 42000 10000	188695 94347 <b>422338</b> 0 20000 42000 0	Judgement on % of construction costs Judgement on % of construction costs  Judgement - not anticipated for this site Judgement Judgement Judgement Included in HASP
40 41 OPER PLAN 42 43 44 45	Administration  ATIONAL REQUIREMENTS  DEVELOPMENT: PCB detection/prevention program  Waste characterization/disposal plan  Groundwater monitoring program	0 1 1	% LS LS LS LS	3144911 3144911 10000 20000 42000	188695 94347 <b>422338</b> 0 20000 42000 0	Judgement on % of construction costs Judgement on % of construction costs  Judgement - not anticipated for this site Judgement
40 41 OPER PLAN 42 43 44 45 46	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY:	0 1 1 0 0	% % % LS	3144911 3144911 10000 20000 42000 10000 10000	188695 94347 <b>422338</b> 0 20000 42000 0 0 62000	Judgement on % of construction costs Judgement on % of construction costs  Judgement - not anticipated for this site Judgement Judgement Included in HASP Included in HASP
40 41 OPER PLAN 42 43 44 45 46 PLAN 47	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program	0 1 1 0 0	% % % LS	10000 20000 42000 10000 10000 7% 3000	188695 94347 <b>422338</b> 0 20000 42000 0 6 <b>2000</b>	Judgement on % of construction costs  Judgement - not anticipated for this site  Judgement - not anticipated for this site  Judgement  Judgement  Judgement  Judgement  Judgement  Judgement  Judgement  Judgement  Joungement  Judgement  Ju
40 41 OPER PLAN 42 43 44 45 46 PLAN 47	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY:	0 1 1 0 0	% % % % % % % % % % % % % % % % % % %	3144911 3144911 10000 20000 42000 10000 10000	188695 94347 422338 0 20000 42000 0 0 62000	Judgement on % of construction costs Judgement on % of construction costs  Judgement - not anticipated for this site Judgement Judgement Included in HASP Included in HASP
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 48 49 50	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program	0 1 1 0 0 0 Discoun 2 30 2	% % % % LS LS LS LS LS YR YR YR	3144911 3144911 10000 20000 42000 10000 7% 3000 17000 14000 3000	188695 94347 422338 0 0 20000 42000 0 0 62000 0 330736 185887 5424	Judgement on % of construction costs  Judgement - not anticipated for this site Judgement - not anticipated for this site Judgement Judgement Included in HASP Included in HASP Included in HASP  5% of full-time effort + 2% of 1/2-time - not anticipated for this site 10% of full-time effort + 20% of 1/2-time Monthly sampling and testing of 15 wells (wells at 2 locations) 5% of full-time effort + 2% of 1/2-time
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 48 49 50 51	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security	0 1 1 1 0 0 0 Discoun 2 30 2 2	% % % % LS LS LS LS LS LS LS LS YR YR YR	3144911 3144911 10000 20000 42000 10000 7% 3000 17000 14000 3000 45000	188695 94347 422338 0 20000 42000 0 0 62000 0 30736 185887 5424 81361	Judgement on % of construction costs Judgement on % of construction costs  Judgement - not anticipated for this site Judgement
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 48 49 50 51 52	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping	0 1 1 0 0 0 Discoun 2 30 2	% % % % LS LS LS LS LS LS LS LS YR YR YR	3144911 3144911 10000 20000 42000 10000 7% 3000 17000 14000 3000	188695 94347 422338 0 20000 42000 0 0 62000 0 30736 185887 5424 81361	Judgement on % of construction costs  Judgement - not anticipated for this site  Judgement - not anticipated in HASP  Included in HASP  Included in HASP  5% of full-time effort + 2% of 1/2-time - not anticipated for this site  10% of full-time effort + 2% of 1/2-time  Monthly sampling and testing of 15 wells (wells at 2 locations)  5% of full-time effort + 2% of 1/2-time  Full-time during daily operations only + 6% of 1/2-time  80% of full-time effort + 2% of 1/2-time
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 48 49 50 51 52 FACIL	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping	0 1 1 0 0 0 Discoun 2 30 2 2 2	% % % % % % % % % % % % % % % % % % %	3144911 3144911 10000 20000 42000 10000 10000 7% 3000 17000 14000 3000 45000 37000	188695 94347 42238 0 20000 42000 0 62000 0 30736 185887 5424 81361 66897 370305	Judgement on % of construction costs  Judgement on % of construction costs  Judgement not anticipated for this site  Judgement  Judg
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 48 49 50 51 52 FACIL 53	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program  Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping  ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications	0 1 1 0 0 0 Discoun 2 30 2 2 2	% % % % LS	3144911 3144911 10000 20000 42000 10000 10000 7% 3000 14000 37000	188695 94347 422338 0 0 20000 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Judgement on % of construction costs  Judgement on % of construction costs  Judgement - not anticipated for this site Judgement - not anticipated for this site Judgement Included in HASP Included in HASP Included in HASP  5% of full-time effort + 2% of 1/2-time - not anticipated for this site 10% of full-time effort + 2% of 1/2-time - not anticipated for this site 10% of full-time effort + 2% of 1/2-time Monthly sampling and testing of 15 wells (wells at 2 locations) 5% of full-time effort + 2% of 1/2-time Full-time during daily operations only + 6% of 1/2-time 80% of full-time effort + 20% of 1/2-time
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 48 49 50 51 52 FACIL	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping	0 1 1 0 0 0 Discoun 2 30 2 2 2	% % % LS LS LS LS LS YR YR YR YR LS	3144911 3144911 10000 20000 42000 10000 10000 7% 3000 17000 14000 3000 45000 37000	188695 94347 422338 0 20000 42000 0 0 0 30736 185887 54242 81361 66897 370305	Judgement on % of construction costs  Judgement on % of construction costs  Judgement not anticipated for this site  Judgement  Judg
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 50 51 52 FACIL 53 54 55 55	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notification General public notification Trespass prevention measures Permanent surface water control plan	0 11 11 0 0 0 Discoun 2 2 2 2 2	% % % LS LS LS LS LS LS YR YR YR LS	3144911 3144911 10000 20000 42000 10000 10000 7% 3000 17000 3000 45000 37000 3000 3000 3000 3000 10000	188695 422338   0 0000   20000   42000   0 0 0 0   62000   185887   5424   1361   66897   370305   3000   3000   3000   3500   10000	Judgement on % of construction costs  Judgement on % of construction costs  Judgement on % of construction costs  Judgement
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 48 49 50 51 52 FACIL 53 54 55 56 57	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordiceping ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notification General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system	0 11 1 0 0 0 Discoun 2 2 2 2 2 2 1 1 1 1 1 1 1 0 0 2 2 2 2 2	% % % S LS L	3144911 3144911 10000 20000 42000 10000 10000 17000 17000 45000 37000 37000 3000 3500 3500 10000 42000 3500 42000	188695 94347 422338 0 94347 422338 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Judgement on % of construction costs  Judgement on % of construction costs  Judgement - not anticipated for this site  Judgement
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 48 49 50 51 52 FACIL 53 54 55 56	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notification General public notification Trespass prevention measures Permanent surface water control plan	0 11 11 0 0 0 Discoun 2 2 2 2 2	% % % LS	3144911 3144911 10000 20000 42000 10000 10000 7% 3000 17000 3000 45000 37000 3000 3000 3000 3000 10000	188695 94347 422338 0 94347 422338 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Judgement on % of construction costs  Judgement no % of construction costs  Judgement - not anticipated for this site  Judgement   Judgement   Judgement   Judgement   Judgement   Judgement   Judgement   Judgement   Solve   Judgement
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 48 49 50 51 52 FACIL 53 54 55 55 56 57 58	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping  ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation Post-closure plan preparation	0 11 1 0 0 0 Discoun 2 2 2 2 2 2 1 1 1 1 1 1 1 0 0 2 2 2 2 2	% % % S LS L	3144911 3144911 10000 20000 42000 10000 10000 17000 17000 45000 37000 37000 3000 3500 3500 10000 42000 3500 42000	188695 94347 422338   0	Judgement on % of construction costs  Judgement - not anticipated for this site  Judgement - not anticipated for this site  Judgement - not anticipated for this site  Judgement Included in HASP  Included in HASP  Included in HASP  10% of full-time effort + 2% of 1/2-time - not anticipated for this site  10% of full-time effort + 2% of 1/2-time  Monthly sampling and testing of 15 wells (wells at 2 locations)  5% of full-time effort + 2% of 1/2-time  Full-time during daily operations only + 6% of 1/2-time  80% of full-time effort + 20% of 1/2-time  Judgement  Judgement  Judgement  Judgement  Judgement  Judgement
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 48 49 50 51 52 FACIL 53 54 55 56 57 58	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation	0 11 1 0 0 0 Discoun 2 2 2 2 2 2 1 1 1 1 1 1 1 0 0 2 2 2 2 2	W % % % LS	3144911 3144911 10000 20000 42000 10000 10000 17000 17000 17000 45000 3000 3000 3000 3000 10000 42000 10000	188695 94347 422338 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Judgement on % of construction costs  Judgement - not anticipated for this site  Judgement - not anticipated for this site  Judgement - not anticipated for this site  Judgement Included in HASP  Included in HASP  Included in HASP  10% of full-time effort + 2% of 1/2-time - not anticipated for this site  10% of full-time effort + 2% of 1/2-time  Monthly sampling and testing of 15 wells (wells at 2 locations)  5% of full-time effort + 2% of 1/2-time  Full-time during daily operations only + 6% of 1/2-time  80% of full-time effort + 20% of 1/2-time  Judgement  Judgement  Judgement  Judgement  Judgement  Judgement
40 41 OPER PLAN 42 43 44 45 46 47 48 49 50 51 52 FACIL 53 54 55 55 56 57 58 SUBT 59 SUBT	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping  ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation OTAL FOR DESIGN OTAL FOR DESIGN WITHOUT CONTINGENCY	0 0 1 1 1 1 1 1 1 1 1 1 1 5 5	LS LS LS LS LS LS YR YR YR YR LS	3144911 3144911 10000 20000 42000 10000 10000 17000 17000 14000 3000 37000 3000 3500 42000 10000 926144	188695 9434 422338 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Judgement on % of construction costs  Judgement on % of construction costs  Judgement on % of construction costs  Judgement Judgement  Judgement Included in HASP Included Include
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 50 51 52 FACIL 53 54 55 56 57 58 SUBT 59 SUBT 60	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation  OTAL FOR DESIGN Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS LS LS LS LS YR YR YR YR LS	3144911 3144911 10000 20000 42000 10000 10000 17000 17000 17000 45000 3000 3000 3000 3000 10000 42000 10000	188695 94347 422338 0 0 20000 42000 62000 0 62000 0 0 62000 3000 3000 3	Judgement on % of construction costs  Judgement on % of construction costs  Judgement on % of construction costs  Judgement Judgement  Judgement Included in HASP Included Include
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 50 51 52 FACIL 53 54 55 56 57 58 SUBT 59 SUBT 60	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping  ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation OTAL FOR DESIGN OTAL FOR DESIGN WITHOUT CONTINGENCY	0 0 1 1 1 1 1 1 1 1 1 1 1 5 5	LS LS LS LS LS LS YR YR YR YR LS	3144911 3144911 10000 20000 42000 10000 10000 17000 17000 14000 3000 37000 3000 3500 42000 10000 926144	188695 9434 422338 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Judgement on % of construction costs  Judgement on % of construction costs  Judgement on % of construction costs  Judgement Judgement  Judgement Included in HASP Included Include
40 41 OPER PLAN 42 43 44 45 50 51 52 FACIL 53 54 55 55 56 57 58 SUBT	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation  OTAL FOR DESIGN Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency	0 0 1 1 1 1 1 1 1 1 1 1 1 5 5	LS LS LS LS LS LS YR YR YR YR LS	3144911 3144911 10000 20000 42000 10000 10000 17000 17000 14000 3000 37000 3000 3500 42000 10000 926144	188695 94347 422338 0 0 20000 42000 62000 0 62000 0 0 62000 3000 3000 3	Judgement on % of construction costs  Judgement on % of construction costs  Judgement on % of construction costs  Judgement Judgement  Judgement Included in HASP Included Include
40 41 OPER PLAN 42 43 44 45 50 51 52 FACIL 53 54 55 55 56 57 58 SUBT	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping  ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation  OTAL FOR DESIGN Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency OTAL FOR DESIGN WITHOUT CONTINGENCY LEFOR DESIGN WITH CONTINGENCY LEFOR DESIGN WITH CONTINGENCY	0 0 1 1 1 1 1 1 1 1 1 1 1 5 5	LS LS LS LS LS LS YR YR YR YR LS	3144911 3144911 10000 20000 42000 10000 10000 17000 17000 14000 3000 37000 3000 3500 42000 10000 926144	188695 94347 422338 0 0 20000 42000 62000 0 0 62000 185887 54224 181361 66897 370305 3000 3000 42000	Judgement on % of construction costs  Judgement on % of construction costs  Judgement on % of construction costs  Judgement Judgement  Judgement Included in HASP Included Include
40 41 OPEAN 42 43 44 45 46 PLAN 47 48 49 50 51 52 FACIL 53 54 55 55 56 57 58 SUBT 60 SUBT	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program Explosive gas monitoring program High wind shuddown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordiceping ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation, incl. final cover system Post-closure plan preparation  OTAL FOR DESIGN Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency OTAL FOR DESIGN WITHOUT CONTINGENCY LEOR DESIGN + CONSTRUCTION (ROUNDED)  ASSUMPTIONS & LIMITATIONS:	0 0 1 1 1 1 1 1 1 1 1 1 1 5 5	LS LS LS LS LS LS YR YR YR YR LS	3144911 3144911 10000 20000 42000 10000 10000 17000 17000 14000 3000 37000 3000 3500 42000 10000 926144	188695 94347 422338 0 0 20000 42000 62000 0 0 62000 185887 54224 181361 66897 370305 3000 3000 42000	Judgement on % of construction costs  Judgement on % of construction costs  Judgement on % of construction costs  Judgement Judgement  Judgement Included in HASP Included Include
40 41 OPER PLAN 42 43 44 45 46 PLAN 47 50 51 52 FACIL 53 54 55 56 57 58 SUBT 60 SUBT 12 2	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols High wind shutdown protocols HMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation  OTAL FOR DESIGN Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency OTAL FOR DESIGN WITHOUT CONTINGENCY LFOR DESIGN **CONSTRUCTION (ROUNDED)  ASSUMPTIONS & LIMITATIONS: Pricing is for 2004 present value with 7 percent discount rate. Annual costs are set at max. 2 years for activities associated v	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	% % % LS LS LS LS LS LS LS LS YR	3144911 3144911 10000 20000 42000 10000 7% 3000 17000 3000 37000 3000 45000 37000 45000 37000 45000 37000 45000 37000 45	188695 94347 422338 0 0 20000 42000 62000 0 0 62000 1 0 30736 185837 5424 13161 66897 370305 3000 35000 42000	Judgement on % of construction costs  Judgement on % of construction costs  Judgement on % of construction costs  Judgement Judgement Judgement Included in HASP Included in HAS
40 41 41 42 43 44 45 46 47 48 49 50 51 52 56 57 58 SUBT 59 SUBT 11 2 3	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping  ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation, incl. final cover system Post-closure plan preparation, incl. final cover system Post-closure plan preparation  OTAL FOR DESIGN Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency OTAL FOR DESIGN WITH CONTINGENCY LFOR DESIGN + CONSTRUCTION (ROUNDED)  ASSUMPTIONS & LIMITATIONS: Pricing is for 2004 present value with 7 percent discount rate. Annual costs are set at max. 2 years for activities associated vanual costs are set at max. 2 years for activities associated vanual costs are set at max. 2 years for activities associated vanual costs are set at max. 2 years for activities associated vanual costs are set at max. 2 years for activities associated vanual costs are set at max. 2 years for activities associated vanual costs are set at arex.	0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% SESSES SESSES SESSES SESSES SESSES SESSES	3144911 3144911 10000 20000 42000 10000 10000 17000 3000 17000 45000 37000 45000 37000 45000 37000 45000 37000 45000 37000	188695 94347 422338  0 0 20000 42000 62000 0 0 0 30738 185887 5424 81361 66897 370305 3000 10000 42000 71500 926144 64307 972451 972451 972451 069696	Judgement on % of construction costs  Judgement on % of construction costs  Judgement - not anticipated for this site  Judgement - not anticipated for this site  Judgement - not anticipated for this site  Judgement - not anticipated in HASP  Included in HASP  Incl
40 41 41 42 43 44 45 46 PLAN 47 48 49 50 51 52 FACIL 53 54 55 56 57 58 SUBT 59 SUBT TOTA	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols High wind shutdown protocols HMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation OTAL FOR DESIGN Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency OTAL FOR DESIGN **CONSTRUCTION (ROUNDED)  ASSUMPTIONS & LIMITATIONS: Pricing is for 2004 present value with 7 percent discount rate. Annual costs are set at max. 2 years for activities associated v Annual plan implementation assumes one full- and one half-	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	% % % LS LS LS LS LS LS LS LS YR YR YR YR YR WS LS	3144911 3144911 10000 10000 42000 42000 10000 10000 3000 37000 37000 37000 45000 37000 45000 37000 45000 37000 45000 37000 45000 37000 45000 37000 450	188695 94347 422338 0 0 20000 42000 62000 62000 0 0 62000 30703 185887 5424 81361 66897 370305 3000 3000 3000 71500 926144 46307 972451 972451 972451 972451 069696	Judgement on % of construction costs  Judgement on % of construction costs  Judgement on % of construction costs  Judgement Judgement  Judgement Included in HASP  Judgement
40 41 41 42 43 44 45 46 PLAN 47 48 49 50 51 52 FACIL 53 54 55 56 57 58 SUBT 59 SUBT TOTA	Administration  ATIONAL REQUIREMENTS DEVELOPMENT: DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols High wind shutdown protocols HMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation OTAL FOR DESIGN Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency OTAL FOR DESIGN **CONSTRUCTION (ROUNDED)  ASSUMPTIONS & LIMITATIONS: Pricing is for 2004 present value with 7 percent discount rate. Annual costs are set at max. 2 years for activities associated v Annual plan implementation assumes one full- and one half-	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	% % % LS LS LS LS LS LS LS LS YR YR YR YR YR WS LS	3144911 3144911 10000 10000 42000 42000 10000 10000 3000 37000 37000 37000 45000 37000 45000 37000 45000 37000 45000 37000 45000 37000 45000 37000 450	188695 94347 422338 0 0 20000 42000 62000 62000 0 0 62000 30703 185887 5424 81361 66897 370305 3000 3000 3000 71500 926144 46307 972451 972451 972451 972451 069696	Judgement on % of construction costs  Judgement on % of construction costs  Judgement - not anticipated for this site  Judgement - not anticipated for this site  Judgement - not anticipated for this site  Judgement - not anticipated in HASP  Included in HASP  Incl

ANVIL POINTS FACILITY OPINION OF PROBABLE COST - CONCEPTUAL						
LTE	RNATE ONSITE REPOSITORY ALTERNATIVE - DRAFT					
tem No.	Line Item	Est. Qty.	Unit	Unit Price	Extended Price	Description
∩ PI	LIZATION & GENERAL SITE PREPARATION					
	Mobilization, Bonding, Insurance	5	%	3654591	182730	Typical percentage
2	Construction BMPs (E&S Controls)	- 1	LS	10000	10000	Judgement - controls at 2 locations
3	Access road improvement & final repair	14		1073		Means crew B-10L - 2 locations
5	Clear & Grub repository site & remove stumps Cleanup & Demobilization		AC LS	7425 10000		Means 02-230-100-0200 & -0250; 12" trees  Judgement - cleanup at 2 locations
				10000	269727	Sudgement Stouring at 2 locations
	SITORY SITE PREPARATION		10	1,000	10000	Ludgoment
7	Surveying Excavation & stockpile for cover & screening at 25%	61400	LS	10000 5.61		Judgement  Means 17-03-0201 remed; +/-3.5 ac x 15 ft @4:1, plus stockpile & screer
8	Clay import for composite liner system	11293	CY	25		Judgement; 3.5 ac; 2' compacted clay layer
9	GCL or geomembrane for composite liner system	18750	SY	10	187500	15' x 150' rolls, 3.5 ac, approx. 75 rolls
10	Leachate collection and removal system	1	LS	100000		Judgement
11	Water storage/delivery system  Monitoring wells for GW detection system	750	LS LF	106500 45		Means 19-01-0326 remed; 10,000 gal storage  Means 02-520-510-0800; 15 wells @50 ft avg.depth
13	Surface water control system grading	20	DAY	2116		Means crew B-10L w/ hyd.excavator - 2 locations
14	Surface water control structures	30	EA	1000	30000	3600 If @150 ft o.c. + 1200 If @200 ft o.c.
15	West Sharrard Gulch protection	1	LS	5000		Additional construction BMPs for gulch
16 17	Interior Fencing, chain link Site Fencing, barbed wire	1400 1960	LF LF	8.65		Means 02-820-130-0800; 6 ft ht, 6 ga.; p=1400' around 3.5 ac  Means 02-820-410-0500; 5 ft ht, 14 ga.; p=1400' add 40% for outer fencir
18	Nuisance control features	1	LS	20000		Judgement
					1209765	
HAL	E PLACEMENT & CLOSURE					
19	Surveying	1		10000		Judgement
20	Excavation of shale pile & impoundments	135000	CY	1.36		Means 02-315-424-1350; 5 CY track mounted F.E.
21 22	Haul to onsite repository  Backfill at repository	10125 135000	HR	100.00		Judgement - 135,000cy in 6,750 trips in 20cy dump @1.5 hr per trip Means 02-315-120-5020; 300 HP dozer
23	Compaction at repository	135000	CY	0.03		Means 02-315-310-5080; 12" lifts, 3 passes
24	Reshaping - shale pile	0		7	0	N/A
25	Compaction - shale pile	0		3		N/A
26 27	Permanent surface water control grading  Permanent surface water structures	15 36	DAY	2116 1500		Means crew B-10L w/ hyd.excavator - incl. repository face 3600 lf @150 ft o.c. + 1200 lf @200 ft o.c incl. repository face
28	West Sharrard Gulch protection	0	LS	66150		N/A
29	Final cover system - low permeability soil	8470	CY	16.95		Means 33-08-0506 remed; approx. 3.5 ac x 18"
30	Final cover system - rooting/seed bed layer	8470	CY	0.63		Means 02-315-120-5020; 300 HP dozer, 3.5 ac x 18"
31 32	Revegetation - onsite repos hydroseed & hydromulch Revegetation - excavated shale pile - hydroseed & hydromulch	3.5	AC AC	4000.00 4000.00		Means 02-920-320-0600; 20 lb/ac rate w/mulch+fert separate passes Means 02-920-320-0600; 20 lb/ac rate w/mulch+fert separate passes
33	Dumping Fees	0		51.84		N/A
					1592243	
					0074704	
	OTAL FOR CONCERNICATION					
	OTAL FOR CONSTRUCTION Additional line items allowance	10	%	3071734	3071734 307173	
34 <b>SUBT</b>	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY	10	%	3071734	307173 <b>3378907</b>	
34 <b>UBT</b> 35	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency	10 15		3071734 3378907	307173 3378907 506836	
34 <b>UBT</b> 35	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY				307173 <b>3378907</b>	
34 35 UBT	Additional line items allowance The Construction WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY LEERING & DESIGN	15	%	3378907	307173 3378907 506836 3885743	
34 35 UBT UBT NGII	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY VEERING & DESIGN Certificate of Designation Application Fees	15	% LS	3378907	307173 3378907 506836 3885743	6 CCR 1007-2 Section 1.7.2 - not required for CERCLA site
34 UBT 35 UBT	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY VEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees	0 0	% LS LS	3378907 10000 1900	307173 3378907 506836 3885743 0	CDPHE water quality permitting home page - not required for CERCLA si
34 UBT 35 UBT NGII 36 37	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY VEERING & DESIGN Certificate of Designation Application Fees	15	% LS	3378907	307173 3378907 506836 3885743 0 0 136001	
34 UBT 35 UBT NGII 36 37 38 39 40	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY VEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight	0 0 3.5 300 5	% LS LS % LF %	10000 1900 3885743 45.00 3885743	307173 3378907 506836 3885743 0 0 136001 13500 194287	CDPHE water quality permitting home page - not required for CERCLA sil Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs
34 UBT 35 UBT NGII 36 37 38 39	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Dilling for site characterization	0 0 3.5 300	% LS LS % LF	3378907 10000 1900 3885743 45.00	307173 3378907 506836 3885743 0 0 0 136001 13500 194287 97144	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200' o.c., 6 wells @50 ft avg.
34 UBT 35 UBT 36 37 38 39 40 41	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY VIEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration	0 0 3.5 300 5	% LS LS % LF %	10000 1900 3885743 45.00 3885743	307173 3378907 506836 3885743 0 0 136001 13500 194287	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs
34 UBT 35 UBT NGII 36 37 38 39 40 41	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY VEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight	0 0 3.5 300 5	% LS LS % LF %	10000 1900 3885743 45.00 3885743	307173 3378907 506836 3885743 0 0 0 136001 13500 194287 97144	CDPHE water quality permitting home page - not required for CERCLA sil Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs
34 UBT 35 UBT NGII 36 37 38 39 40 41 PEF LAN 42	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY VIEERING & DESIGN Certificate of Designation Application Fees COPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program	0 0 3.5 300 5 2.5	% LS LS % LF % %	3378907 10000 1900 3885743 45.00 3885743 3885743	307173 3378907 506836 3885743 0 0 136001 13500 194287 97144 440932	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200' o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site
34 UBT 35 UBT NGII 36 37 38 39 40 41 PEF LAN 42 43	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan	0 0 3.5 300 5 2.5	% LS LS % % LF % % LS LS LS	3378907 10000 1900 3885743 45.00 3885743 3885743	307173 3378907 508836 3885743 0 0 136001 13500 194287 97144 440932	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement
34 UBT 35 UBT 36 37 38 39 40 41 PEF LAN 42 43 44	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency  EERING & DESIGN  Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program	0 0 0 3.5 300 5 2.5	LS LS % LF % %	3378907 10000 1900 3885743 45.00 3885743 3885743 10000 20000 42000	307173 3378907 506836 3885743 0 0 136001 135000 194287 97144 440932	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement on % of construction costs  Judgement - not anticipated for this site Judgement Judgement Judgement Judgement
34 UBT 35 UBT 36 37 38 39 40 41 PEF LAN 42 43 44 45	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan	0 0 3.5 300 5 2.5	LS LS % LF % %	3378907 10000 1900 3885743 45.00 3885743 3885743	307173 3378907 50833 3885743 0 0 138001 135001 134287 97144 440932 0 20000 42000	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement
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34 UBT 35 UBT NGII 36 37 38 39 40 41 PEF LAN 42 43 44 45 46	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY:	0 0 3.5 300 5 2.5	% LS LS % % LF % % LS	3378907 10000 1900 3885743 45.00 3885743 3885743 10000 20000 10000 10000 7%	307173 3378907 508336 3885743 0 0 136001 13500 134287 97144 440932 0 0 20000 42000 0 0 62000	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement Judgement Judgement Judgement Included in HASP Included in HASP
34 UBT 35 UBT 36 37 38 39 40 41 PEF LAN 42 43 44 45 46	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY  EERING & DESIGN  Certificate of Designation Application Fees COPHE stornwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program	0 0 3.5 300 5 2.5	% LS LS % % % W LS	10000 1900 3885743 45.00 3885743 10000 20000 42000 10000 10000 7% 3000	307173 3378907 50835 3885743 0 0 136001 13500 194287 97144 440932 0 20000 42000 0 0 0 62000	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement on % of construction costs  Judgement - not anticipated for this site Judgement Judgement Included in HASP Included in HASP  5% of full-time effort + 2% of 1/2-time - not anticipated for this site
34 UBT 35 UBT NGII 36 37 38 40 41 PEF LAN 42 43 44 45 46 LAN 47 48	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY  EERING & DESIGN  CERTIficate of Designation Application Fees COPHE stornwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring	0 0 3.5 300 5 2.5	% LS LS % % LF % % LS	3378907 10000 1900 3885743 45.00 3885743 3885743 10000 20000 10000 10000 7%	307173 3378907 506336 3885743 0 0 0 136001 13500 194287 97144 440932 20000 42000 0 0 62000	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° c.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement Judgement Judgement Judgement Included in HASP Included in HASP
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34 UBT 35 UBT 36 37 38 39 40 41 PEF LAN 42 43 44 45 46 LAN 47 48 49 50 51	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY  IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Dilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program  Explosive gas monitoring program  Explosive gas monitoring program  Explosive gas monitoring program	0 0 0 3.5 3000 5 5 2.5 0 0 1 1 1 1 0 0 0 0 0 0 2 2 3 30 0 2 2 2 2 2 2 2	% LS LS	10000 1900 3885743 45.00 3885743 10000 20000 42000 10000 10000 17000 14000 14000 14000 45000	307173 3378907 508336 3885743 0 0 136001 13500 194287 0 0 20000 42000 0 0 0 0 0 0 0 0 194587 19514 195	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement Judgement Judgement Included in HASP In
34 UBT 35 UBT 36 37 38 39 40 41 PEF LAN 42 43 44 45 46 LAN 47 48 49 50 51 52	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring Explosive gas monitoring program Site security Recordkeeping	0 0 3.5 300 2.5 0 1 1 1 0 0 0 Discoun 2 3 0 0	% LS LS	10000 1900 3885743 45.00 3885743 3885743 10000 42000 10000 10000 10000 17000 17000 17000 14000 3000 3000 3000	307173 3378907 508336 3885743 0 0 136001 13500 194287 0 0 20000 42000 0 0 0 0 0 0 0 0 194587 19514 195	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement on % of construction costs  Judgement - not anticipated for this site Judgement Judgement Included in HASP Included in
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34 UBT 35 UBT NGII 36 37 38 39 40 41 41 42 43 44 45 46 LAN 47 48 49 50 50 50 50 50 50 50 50 50 50	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Record and program Site security Record and program Site security State & Local notifications	0 0 0 3.5 5 2.5 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	%	10000 1900 3885743 45.00 3885743 3885743 10000 10000 10000 17000 17000 17000 17000 45000 37000	307173 3378907 506836 3885743 0 0 0 138001 138001 13500 20000 42000 20000 42000 62000 62000 30736 185887 5424 81381 81381 868897 370305	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement - not anticipated for this site Judgement Judgement Included in HASP Included Included in HASP Included Included in HASP Included Included in HASP Included
34 UBT 35 UBT NGII 36 37 38 39 40 41 42 43 44 45 46 LAN 47 48 49 50 51 52 ACII 53 54	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY  EERING & DESIGN  Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Dilling for site otheracterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program  Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program State & Local notifications General public notification	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%	10000 1900 3885743 45.00 3885743 3885743 10000 20000 42000 10000 10000 17000 17000 17000 3000 3	307173 3378907 508336 3885743 0 0 136001 13500 194287 0 0 0 20000 42000 0 0 0 62000 0 0 0 185887 5424 81361 66897 370305	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement Judgement Judgement Included in HASP Included Included in HASP Included Incl
34 UBT 35 UBT NGII 36 37 38 39 40 41 41 42 43 44 45 46 LAN 47 48 49 50 50 50 50 50 50 50 50 50 50	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Diffling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring Explosive gas monitoring Explosive gas monitoring Figure State (Figure 1) Figure State (Figure 1) Figure State (Figure 2) Figure State (Figure 3) Figure 3) Figure State (Figure 3) Figure 4) F	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%	10000 1900 3885743 45.00 3885743 3885743 10000 10000 10000 17000 17000 17000 17000 45000 37000	307173 3378907 508336 3885743 0 0 136001 13500 194287 97144 440932 20000 42000 0 0 0 62000 0 0 62000 185887 5424 81361 66897 370305 30303 30303 30303 30303 30303	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement Judgement Judgement Judgement Included in HASP Included Included in HASP Included Included in HASP Included in HASP Included in HASP Included Included Included in HASP Included Include
34 UBT 35 UBT NGII 36 37 38 39 40 41 42 43 44 45 46 LAN 47 48 49 50 51 52 ACIL 53 54 55 56 57	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY  EERING & DESIGN  Certificate of Designation Application Fees CDPHE stornwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Stile security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%	10000 1900 3885743 45.00 3885743 3885743 10000 10000 10000 10000 17000 17000 3000 45000 37000 3000 3500 10000	307173 3378907 50833 3885743 0 0 136001 13500 194287 0 0 20000 42000 0 0 62000 0 30736 158887 5424 158887 5424 370305	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement Judgement Judgement Judgement Judgement Included in HASP Included Included in HASP Included
34 UBT 35 UBT NGII 36 37 38 39 40 41 PEF LAN 42 43 44 45 46 LAN 47 48 49 50 50 50 50 50 50 50 50 50 50	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Diffling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring Explosive gas monitoring Explosive gas monitoring Figure State (Figure 1) Figure State (Figure 1) Figure State (Figure 2) Figure State (Figure 3) Figure 3) Figure State (Figure 3) Figure 4) F	0 0 3.5.5 3000 5 5 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%	10000 1900 3885743 45.00 3885743 10000 20000 42000 42000 10000 10000 17000 17000 3000 45000 37000	307173 3378907 506836 3885743 0 0 136001 13500 194287 97144 440932 20000 42000 0 0 0 62000 0 62000 0 62000 30736 6893 37305 37305 3000 3000 3000 3500 3500 10000 42000	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement Judgement Judgement Judgement Included in HASP Included Included in HASP Included Included in HASP Included in HASP Included in HASP Included Included Included in HASP Included Include
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34 UBT 35 36 37 38 39 40 41 42 43 44 45 46 LAN 47 48 49 50 51 52 ACIL 55 56 57 58	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY  EERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Diffling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Saste characterization/disposal Groundwater monitoring Feptosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Stite security Recordiceping  ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notifications Frespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system OTAL FOR DESIGN	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% LS	10000 1900 3885743 45.00 3885743 3885743 10000 42000 42000 10000 17000 17000 3000 3000 3000 37000 3000 3	307173 3378907 508336 3885743 0 0 136001 13500 194287 97144 440932 20000 42000 0 0 0 62000 0 0 62000 185887 5424 81361 66897 370305 30303 30303 3500 15000 42000 3000 3000 3000 3000 3000 3000	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement Judgement Judgement Judgement Judgement Included in HASP Included Included in HASP Included
34 UBT 35 36 37 38 39 40 41 42 43 44 45 46 LAN 47 50 51 52 ACIL 53 54 55 56 57 58	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewalering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordikeeping  ITY CLOSURE - ENGINEERING/DESIGN State & Local notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation  OTAL FOR DESIGN Additional line items allowance	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% LS	10000 1900 3885743 45.00 3885743 3885743 10000 10000 10000 10000 17000 17000 3000 45000 37000 3000 3500 10000	307173 307197 506836 3885743  0 0 136001 135001 135001 135001 20000 20000 0 0 0 0 30736 185887 5424 81361 66897 370305	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on the following for this site Judgement Judgement Judgement Induded in HASP Included Included in HASP Included
34 UBT 35 UBT 36 37 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 ACIII 55 65 67 58 80 80 80 80 80 80 80 80 80 8	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Diffling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordiceping ITY CLOSURE - ENGINEERING/DESIGN State & Local notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation OTAL FOR DESIGN WITHOUT CONTINGENCY	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%  LS LS % % % % % % LS	10000 1900 3885743 45.00 3885743 3885743 10000 42000 42000 10000 17000 17000 3000 3000 3000 37000 3000 3	307173 3378907 50838 3885743 0 0 136001 13500 194287 97144 440932 20000 42000 0 0 0 62000 0 62000 0 62000 303736 185887 54242 81361 66837 370305 3030 3030 42000 42000 10000 42000 10000 42000 42000 42000 10000 42000 400	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement Judgement Judgement Judgement Judgement Included in HASP Included Included in HASP Included
34 UBT 35 UBT 36 37 38 39 40 41 42 43 44 45 46 LAN 47 48 49 50 51 55 56 57 58 UBT 58 58 58 58 58 58 58 58 58 58	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewalering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordikeeping  ITY CLOSURE - ENGINEERING/DESIGN State & Local notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation  OTAL FOR DESIGN Additional line items allowance	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%  LS LS % % % % % % LS	3378907  10000 1900 3885743 45.00 3885743 3885743  10000 20000 42000 10000 7% 3000 17000 17000 3000 37000 3500 10000 42000 10000 944737	307173 307197 506836 3885743  0 0 136001 135001 135001 135001 20000 20000 0 0 0 0 30736 185887 5424 81361 66897 370305	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on the following for this site Judgement Judgement Judgement Induded in HASP Included Included in HASP Included
34 UBT 35 UBT 36 37 37 38 39 40 41 41 42 43 44 45 46 47 48 49 50 51 52 ACII 55 56 57 58 UBT 60 UBT	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY  EERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Dilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols  IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring program Waste characterization/disposal Groundwater monitoring program State & Local notifications General public notifications General public notifications General public notifications Closure plan preparation, incl. final cover system Post-closure plan preparation OTAL FOR DESIGN Additional ine items allowance OTAL FOR DESIGN WITH CONTINGENCY OTAL FOR DESIGN WITH CONTINGENCY	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%  LS LS % % % % % % LS	3378907  10000 1900 3885743 45.00 3885743 3885743  10000 20000 42000 10000 7% 3000 17000 17000 3000 37000 3500 10000 42000 10000 944737	307173 3078907 50838 3885743  0 0 136001 13500 194287 97144 440932  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement Judgement Judgement Induded in HASP Included Included in HASP Included
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34 UBT NGIII 35 36 37 38 39 40 41 41 42 43 44 44 45 46 47 47 48 49 50 55 56 57 58 UBT 60 UBT	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY LERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation OTAL FOR DESIGN ASSUMPTIONS & LIMITATIONS: Pricing is for 2004 present value with 7 percent discount rate.	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%  LS LS % % % % % %  LS	3378907  10000 1900 3885743 45.00 3885743 3885743  10000 20000 42000 10000 7% 3000 17000 3000 37000 3000 45000 37000 3500 10000 944737	307173 3078907 50838 3885743  0 0 136001 13500 194287 97144 440932  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CDPHE water quality permitting home page - not required for CERCLA si Judgement on % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement Judgement Judgement Induded in HASP Included Included in HASP Included
34 UBT 35 UBT 36 UBT 37	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY EERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Dilling for site otheracterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring program Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring program Waste characterization/disposal Groundwater monitoring program Site security Recordkeeping  ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation, incl. final cover system Post-closure plan preparation  OTAL FOR DESIGN Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY  LOR DESIGN + CONSTRUCTION (ROUNDED)  ASSUMPTIONS & LIMITATIONS: Pricing is for 2004 present value with 7 percent discount rate. Annual costs are set at max. 2 years for activities associated w	15  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% LS LS % % % STANDARD STANDAR	3378907  10000 1900 3885743 45.00 20000 42000 10000 10000 17000 3000 37000 37000 3000 45000 37000 3900 45000 39000 45000 39000 45000 39000 45000 39000 45000	307173 3378907 506836 3885743  0 0 136001 13500 194287 97144 440932  0 0 20000 42000 62000 62000 0 0 307036 185887 5424 81361 66897 370305 3000 3500 10000 42000 10000 944737 47237 99197 1091177	CDPHE water quality permitting home page - not required for CERCLA s Judgement on % of construction costs Means 02-520-510-0800; 200° c.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement Judgement Judgement Judgement Included in HASP Included Included in HASP Included Includ
NGIG 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY (Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY IEERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Drilling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordkeeping ITY CLOSURE - ENGINEERING/DESIGN State & Local notification Trespass prevention measures Permanent surface water control plan Closure plan preparation OTAL FOR DESIGN OTAL FOR DESIGN WITHOUT CONTINGENCY Contingency OTAL FOR DESIGN WITHOUT CONTINGENCY LFOR DESIGN + CONSTRUCTION (ROUNDED)  ASSUMPTIONS & LIMITATIONS: Pricing is for 2004 present value with 7 percent discount rate. Annual costs are set at max. 2 years for activities associated w Annual costs are set at max. 2 years for activities associated w Annual costs are set at max. 2 years for activities associated w Annual costs are set at max. 2 years for activities associated w Annual costs are set at max. 2 years for activities associated w Annual costs are set at max is years for activities associated w Annual costs are set at max is years for activities associated w Annual costs are set at 30 years for long-term monitoring activ	15  0 0 0 3.5 5 2.5 300 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	% LS LS % LS	3378907  10000 1900 3885743 45.00 3885743 3885743  10000 10000 10000 10000 10000 3000 3	307173 307173 307897 50836 3885743  0 0 0 138001 138001 138001 138001 20000 42000 42000 62000 0 0 30736 185887 5424 81361 68937 370305 3000 3000 10000 71500 944737 42237 991974 991974 991977	CDPHE water quality permitting home page - not required for CERGLA s Judgement no % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement   Judgement   Judgement   Judgement   Judgement   Judgement   Judgement   Judgement   See of full-time effort + 2% of 1/2-time - not anticipated for this site   The full-time effort + 2% of 1/2-time - not anticipated for this site   The full-time effort + 2% of 1/2-time   The full-time effort + 2% of 1/2-time   The full-time during daily operations only + 6% of 1/2-time   The full-time effort + 2% of 1/2-time   Judgement   J
NGIII 334 44 45 46 46 47 47 75 55 8 11 12 12 12 12 12 12 12 12 12 12 12 12	Additional line items allowance OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY Contingency OTAL FOR CONSTRUCTION WITH CONTINGENCY EERING & DESIGN Certificate of Designation Application Fees CDPHE stormwater constr. & dewatering permit fees Engineering design & operation report (including HASP) Diffling for site characterization Construction oversight Administration  ATIONAL REQUIREMENTS DEVELOPMENT: PCB detection/prevention program Waste characterization/disposal plan Groundwater monitoring program Explosive gas monitoring program High wind shutdown protocols IMPLEMENTATION ANNUALLY: PCB detection/prevention program Waste characterization/disposal Groundwater monitoring program Explosive gas monitoring program Waste characterization/disposal Groundwater monitoring Explosive gas monitoring program Site security Recordiceping ITY CLOSURE - ENGINEERING/DESIGN State & Local notifications General public notifications General public notifications General public notifications General public notification Trespass prevention measures Permanent surface water control plan Closure plan preparation, incl. final cover system Post-closure plan preparation OTAL FOR DESIGN AOTAL FOR DESIGN AOTAL FOR DESIGN AOTAL FOR DESIGN VITH CONTINGENCY Contingency OTAL FOR DESIGN CONSTRUCTION (ROUNDED) ASSUMPTIONS & LIMITATIONS: Pricing is for 2004 present value with 7 percent discount rate. Annual costs are set at max. 2 years for activities associated wannual costs are set at 30 years for long-term monitoring activities associated wannual costs are set at max. 2 years for activities associated wannual costs are set at max. 2 years for activities associated wannual costs are set at max. 2 years for activities associated wannual costs are set at 30 years for long-term monitoring activities associated wannual costs are set at an 30 years for long-term monitoring activities associated wannual costs are set at max. 2 years for activities associated wannual plan implementation assumes on equil. and	15  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% LS	3378907  10000 1900 3885743 45.00 3885743 3885743  10000 20000 20000 10000 17000 3000 37000 3000 37000 3000 42000 10000 3944737 991974	307173 3378907 506836 3885743  0 0 136001 136001 13500 194287 97144 440932  0 0 62000 42000 62000 10000 307368 185887 5424 81361 66897 370305 3000 3000 3500 10000 71500 944737 47237 991974 99197 1091171	CDPHE water quality permitting home page - not required for CERGLA s Judgement no % of construction costs Means 02-520-510-0800; 200° o.c., 6 wells @50 ft avg. Judgement on % of construction costs Judgement on % of construction costs Judgement - not anticipated for this site Judgement   Judgement   Judgement   Judgement   Judgement   Judgement   Judgement   Judgement   See of full-time effort + 2% of 1/2-time - not anticipated for this site   The full-time effort + 2% of 1/2-time - not anticipated for this site   The full-time effort + 2% of 1/2-time   The full-time effort + 2% of 1/2-time   The full-time during daily operations only + 6% of 1/2-time   The full-time effort + 2% of 1/2-time   Judgement   J

	OPIN				FACILITY COST - CO	NCEPTUAL
SEEC	TE LANDFILL ALTERNATIVE - DRAFT					
tem	ILE LANDFILL ALTERNATIVE - DRAFT	Est.		Unit	Extended	
No.	Line Item	Qty.	Unit	Price	Price	Description
OBI	LIZATION & GENERAL SITE PREPARATION			1		
	Mobilization, Bonding, Insurance	5	%	1330731		Typical percentage; dumping fees excluded
3	Construction BMPs (E&S Controls) Access road improvement & final repair	1	LS	5000 1073		Judgement Means crew B-10L
4	Clear & Grub repository site & remove stumps	0		7425		N/A
5	Cleanup & Demobilization	- 1	LS	5000	5000	Judgement
ITC I	PREPARATION - AT PILE				79756	
6	Surveying	0	LS	10000	0	N/A
7	Excavation & stockpile for cover & screening at 25%	0		5.61		N/A
8	Clay import for composite liner system	0		25		N/A
9 10	GCL or geomembrane for composite liner system  Leachate collection and removal system	0		100000		N/A N/A
11	Water storage/delivery system	0		106500		N/A
12	Monitoring wells for GW detection system	0		45		Means 02-520-510-0800; 10 wells @50 ft avg.depth
13	Surface water control system grading	8		2116		Means crew B-10L w/ hyd.excavator - difficult access
14 15	Surface water control structures West Sharrard Gulch protection	6	EA LS	500 5000		1200 If @ 200 ft o.c.; along top of pile; short-term structures Additional construction BMPs for gulch
16	Interior Fencing, chain link	0		22		N/A
17	Site Fencing, barbed wire	0		8.65		Means 02-820-410-0500; 5 ft ht, 14 ga.; p=1500' around 4 ac
18	Nuisance control features	0	LS	20000	24928	N/A
					24320	
	EEXCAVATION					
	Surveying	125000		10000		Judgement
20 21	Excavation of shale pile + impoundments (including reveg.prep.) Haul to offsite landfill	135000	CY	1.46 5.55		Means 02-315-424-1350; 5 CY track mounted F.E. Means 02-315-490-1245; 5 mi RT, 20 CY dump
22	Backfill at repository	0		0.63	0	N/A
23	Compaction at repository	0	CY	0.27	0	N/A
24 25	Reshaping - unexcavated areas	0		7		N/A N/A
25 26	Compaction - unexcavated areas  Permanent surface water control grading	4		2116		N/A Means crew B-10L w/ hyd.excavator - difficult access
27	Permanent surface water structures	6	EA	1500		1200 If @ 200 ft o.c.; along top of pile; permanent structures
28	West Sharrard Gulch protection	0		99225		N/A
29 30	Final cover system - low permeability soil Final cover system - rooting/seed bed layer	0		16.95 0.63		N/A N/A
31	Revegetation - repos hydroseed & hydromulch	0	AC	4000.00		N/A
32	Revegetation - excavated shale pile - hydroseed & hydromulch	10	AC	4000.00		Means 02-920-320-0600; 20 lb/ac rate w/mulch+fert separate passes
33	Dumping Fees	135000	CY	51.84		Quote from Garfield West County Landfill
					8012214	
UBT	OTAL FOR CONSTRUCTION				8116898	
	Additional line items allowance	10	%	1118498		Dumping fees excluded
	OTAL FOR CONSTRUCTION WITHOUT CONTINGENCY Contingency	15	%	1230347	8228747 184552	Dumping fees excluded
	OTAL FOR CONSTRUCTION WITH CONTINGENCY	10	76	1200047	8413299	Dumping rees excluded
	EERING & DESIGN Certificate of Designation Application Fees	0	LS	10000	0	6 CCR 1007-2 Section 1.7.2
37	CDPHE stormwater constr. & dewatering permit fees	0		1900		CDPHE water quality permitting home page - not required for CERCLA sit
38	Engineering design & operation report (including HASP)	6	%	1414899		Judgement on % of construction costs; dumping fees excluded
39	Drilling for site characterization	0		45.00		N/A
40 41	Construction oversight Administration	7	%	1414899 1414899		Judgement on % of construction costs; dumping fees excluded  Judgement on % of construction costs; dumping fees excluded
71	Poministration		70	1414000	226384	
	ATIONAL REQUIREMENTS					
	DEVELOPMENT:			40000		N/A
42	PCB detection/prevention program Waste characterization/disposal plan	0		10000 20000		N/A N/A
44	Groundwater monitoring program	0		42000		N/A
45	Explosive gas monitoring program	0	LS	10000	0	N/A
46	High wind shutdown protocols	0	LS	10000		N/A
ΔNI	  MPLEMENTATION ANNUALLY:	Discoun	t Rate -	7%	0	
	PCB detection/prevention program	Discoun		3000	0	N/A
48	Waste characterization/disposal	0	YR	17000	0	N/A
	Groundwater monitoring	30	YR	8000		Monthly sampling and testing of 10 wells
	Explosive gas monitoring program Site security	0		3000 45000		N/A N/A
52	Recordkeeping	0		37000		N/A
					106221	
	ITY CLOSURE - ENGINEERING/DESIGN		1.0	0000		INIA
53 54	State & Local notifications General public notification	0		3000 3000		N/A N/A
55	Trespass prevention measures	0		3500		N/A
56	Permanent surface water control plan	0	LS	10000	0	N/A
57	Closure plan preparation, incl. final cover system	0		42000		N/A
58	Post-closure plan preparation	0	LS	10000	0	N/A
	OTAL FOR DESIGN			0	332605	
	Additional line items allowance OTAL FOR DESIGN WITHOUT CONTINGENCY	0	%	332605	332605	N/A
	Contingency	5	%	332605	16630	
	OTAL FOR DESIGN WITH CONTINGENCY	,	,3	202000	349236	
OTA	L FOR DESIGN + CONSTRUCTION (ROUNDED)				8763000	
	ASSUMPTIONS & LIMITATIONS:	-				
- 1	Pricing is for 2004 present value with 7 percent discount rate.					
- 1	No additional drilling or geophysical investigations required for si	te charac	cterizatio	on.		
						I